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UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR § 1.53(b))

Attorney Docket No.	4284-5B1
First Inventor or Application Identifier	Jeffrey A. Norris
Title	CLOSED LOOP FINANCIAL TRANSACTION METHOD AND APPARATUS
Express Mail Label No.	EM455636906US

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

ADDRESS TO: Assistant Commissioner for Patents
Box Patent Application
Washington, DC 20231

1. ☒ *Fee Transmittal Form (e.g., PTO/SB/17)
(Submit an original and a duplicate for fee processing)
2. ☒ Specification [Total Pages 28]
(preferred arrangement set forth below)
 - Descriptive title to the invention
 - Cross References to Related Applications
 - Statement Regarding Fed sponsored R & D
 - Reference to Microfiche Appendix
 - Background of the Invention
 - Brief Summary of the Invention
 - Brief Description of the Drawings (if filed)
 - Detailed Description
 - Claim(s)
 - Abstract of the Disclosure
3. ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets 3]
4. ☒ Oath or Declaration [Total Pages 5]
 - a. ☐ Newly executed (original or copy)
 - b. ☒ Copy from a prior application (37 C.F.R. § 1.63(d))
(for continuation/divisional with Box 17 completed)
[Note Box 5 below]
 - i. ☐ DELETION OF INVENTOR(S)
Signed statement attached deleting
inventor(s) named in the prior application,
see 37 C.F.R. §§ 1.63(d)(2) and 1.33(b).
5. ☒ Incorporation By Reference (useable if Box 4b is checked)
The entire disclosure of the prior application, from which a
copy of the oath or declaration is supplied under Box 4b,
is considered as being part of the disclosure of the
accompanying application and is hereby incorporated by
reference therein.

6. ☐ Microfiche Computer Program (Appendix)
7. ☐ Nucleotide and/or Amino Acid Sequence Submission
(if applicable, all necessary)
 - a. ☐ Computer Readable Copy
 - b. ☐ Paper Copy (identical to computer copy)
 - c. ☐ Statement verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

8. ☒ Assignment Papers (cover sheet & document(s))
9. ☒ 37 C.F.R. § 3.73(b) Statement ☒ Power of Attorney
(when there is an assignee)
10. ☐ English Translation Document (if applicable)
11. ☐ Information Disclosure Statement (IDS)/PTO-1449 ☐ Copies of IDS
Citations
12. ☒ Preliminary Amendment
13. ☒ Return Receipt Postcard (MPEP 503)
(Should be specifically itemized)
14. ☐ *Small Entity ☒ Statement filed in prior application,
Statement(s) Status still proper and desired
15. ☐ Certified Copy of Priority Document(s)
(if foreign priority is claimed)
16. ☐ Other: _____

***NOTE FOR ITEMS 1 & 14: IN ORDER TO BE
ENTITLED TO PAY SMALL ENTITY FEES, A SMALL
ENTITY STATEMENT IS REQUIRED (37 C.F.R.
§ 1.27), EXCEPT IF ONE FILED IN A PRIOR
APPLICATION IS RELIED UPON (37 C.F.R. § 1.28).**

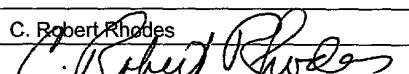
17. If a CONTINUING APPLICATION, check appropriate box and supply the requisite information below and in a preliminary statement:

☒ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No: 08 / 732584
Prior application information: Examiner: W. Hugnet Group/Art Unit: 2761

18. CORRESPONDENCE ADDRESS

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Signature		Date	MAY 5, 1999

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: **Jeffrey A. Norris**
1.53(b) Continuation of: **Serial No.: 08/732,584, filed October 15, 1996, and**
Examined by W. Hughet of Art Unit 2761
For: **CLOSED LOOP FINANCIAL TRANSACTION**
METHOD AND APPARATUS

Assistant Commissioner for Patents
Washington, DC 20231

Sir:

PRELIMINARY AMENDMENT

Please enter the following amendments prior to calculating the filing fees. If any fees in addition to those associated with the application are required, the Commissioner is hereby authorized to charge them to Deposit Account No. 18-1164 and consider this a petition therefor.

In the Title:

Please change the title to "An Automatic Financial Account Processing System".

In the Specification:

On page 1, please replace the first sentence with -- This is a continuation application claiming the benefit of Serial No. 08/732,584, filed October 15, 1996, pending, entitled AN AUTOMATIC FINANCIAL ACCOUNT PROCESSING SYSTEM in the name of Jeffrey A. Norris, which in turn is a File Wrapper Continuation of Serial No. 08/327,653, filed

October 24, 1994, abandoned, which in turn was a Continuation-In-Part Application of Serial No. 08/113,205, filed August 27, 1993. --

In the Claims:

Please cancel claims 1-20, without prejudice.

Please add the following new claims for the above-identified continuation application:

-- 21. An automatic account processing system for establishing a financial account without human intervention for applicants located at a remote interface, said system comprising:

- a. a remote interface adapted to:
 - i. allow an applicant to remotely request an account; and
 - ii. receive data from an applicant;
- b. a data processing system with associated memory having establishment criteria bearing on the ability and willingness of the applicant to comply with account requirements for establishing and holding an account at a financial institution based on prescribed data obtained from the applicant and information about the applicant obtained from at least one database containing information about the applicant relevant to the ability and willingness of the applicant to comply with the account requirements;
- c. a communication network electronically coupling said data processing system to said applicant interface;
- d. without human assistance, said data processing system adapted to:

- i. receive the data from the applicant received at the remote interface;
- ii. access the at least one database for information relevant to the applicant's identity and for the information relevant to the applicant's ability and willingness to comply with the account requirements;
- iii. verify the applicant's identity by comparing certain of the information received from the applicant with certain of the information received from said at least one database relevant to the applicant's identity;
- iv. compare certain of the information received from the applicant and certain of the information received from said at least one database relevant to the applicant's ability and willingness to comply with the account requirements to determine in real time and without human assistance if the applicant's requested account is approved; and
- v. send a result to the remote applicant interface informing the applicant whether or not establishment of the requested account was approved.

22. The automatic account processing system of claim 21 wherein said data processing system is further adapted to open an account at a financial institution upon approval.

23. The automatic account processing system of claim 22 wherein said data processing system is further adapted to effect a funds transfer to the account at the financial institution.

24. The automatic account processing system of claim 23 wherein said remote interface and said data processing system cooperate to receive information from the applicant identifying a source for the funds to transfer to the account and an amount of funds to transfer.

25. The automatic account processing system of claim 23 wherein said remote interface is further configured to receive funds from the applicant and said data processing system is adapted to receive information relating to the funds received from the applicant at the remote interface and to transfer to the account an amount corresponding to the funds received from the applicant.

26. The automatic account processing system of claim 25 wherein said remote interface may include one of the group consisting of a cash acceptor, card reader, and scanner to receive the funds.

27. The automatic account processing system of claim 22 wherein said data processing system is further adapted to effect a funds transfer to the account at the financial institution from another account.

28. The automatic account processing system of claim 21 further comprising a card issuing device located at said remote interface and adapted to configure a card based on applicant and account information wherein said data processing system is further adapted to effect issuance of a transaction card associated with the account from the card issuing device after approval of the requested account.

29. The automatic account processing system of claim 21 wherein said criteria bearing on the ability and willingness of the applicant to comply with account requirements is weighted and said data processing system is further adapted to:

- a. provide a score based on the comparison of certain of the information received from the applicant and certain of the information received from said at least one database relevant to the applicant's ability and willingness to comply with the account requirements, and
- b. determine whether or not to approve the account request based on the score.

30. The automatic account processing system of claim 21 wherein said account is one of the group consisting of a checking account, savings account, retirement account, interest bearing, non-interest bearing account, and credit account.

31. The automatic account processing system of claim 21 further comprising a printer located at the remote interface for printing checks, said data processing system further

adapted to cooperate with said remote interface to effect printing a negotiable instrument associated with the account.

32. The automatic account processing system of claim 31 wherein said negotiable instrument is a blank check.

33. The automatic account processing system of claim 31 wherein said negotiable instrument is a cashier's check having select value.

34. The automatic account processing system of claim 21 further comprising a printer located at the remote interface for printing checks, said data processing system further adapted to cooperate with said remote interface to effect printing a negotiable instrument having an assigned value to be drafted from the account.

35. The automatic account processing system of claim 21 wherein said data processing system is further adapted to effect ordering negotiable instruments associated with the account.

36. The automatic account processing system of claim 21 wherein said remote interface is a public kiosk.

37. The automatic account processing system of claim 21 further comprising an electronic signature pad located at the remote interface and adapted to electronically receive the applicant's signature to indicate acceptance of a financial transaction.

38. The automatic account processing system of claim 21 wherein said remote interface includes an input device selected from the group consisting of touch screens, input keys, keypads, card reader, scanner, and signature pad.

39. An automatic credit account processing system providing real time credit account processing without human intervention for applicants located at a remote interface, said system comprising:

- a. a remote applicant interface adapted to:
 - i. allow an applicant to remotely request a credit account; and
 - ii. receive data from the applicant;
- b. a data processing system with associated memory having underwriting criteria bearing on the ability and willingness of an applicant to repay a credit obligation based on prescribed data obtained from the applicant and information about the applicant obtained from at least one database containing information about the applicant relevant to the ability and willingness of the applicant to repay a credit obligation;
- c. a communication network electronically coupling said data processing system to said applicant interface;
- d. without human assistance, said data processing system adapted to:

- i. receive the data from the applicant received at the applicant interface;
- ii. access the at least one database for information relevant to the applicant's identity and for information relevant to the applicant's ability and willingness to repay the credit obligation;
- iii. verify the applicant's identity by comparing certain of the information received from the applicant with certain of the information received from said at least one database relevant to the applicant's identity;
- iv. compare certain of the information received from the applicant and certain of the information received from said at least one database relevant to the applicant's ability and willingness to repay the credit obligation with said underwriting criteria;
- v. based on the comparison of certain of the information received from the applicant and certain of the information received from said at least one database relevant to the applicant's ability and willingness to repay the credit obligation with said underwriting criteria, determine in real time and without human assistance if the applicant's requested credit account is approved; and

- vi. send a result to the remote applicant interface informing the applicant whether or not establishment of the requested credit account was approved.

40. The automatic credit account processing system of claim 39 wherein said data processing system is further adapted to open the credit account at a financial institution upon approval.

41. The automatic credit account processing system of claim 39 wherein said credit account is a credit card account.

42. The automatic credit account processing system of claim 39 wherein said data processing system is further adapted to provide a loan from the financial institution based on the credit account.

43. The automatic credit account processing system of claim 39 wherein said data processing system is further adapted to effect a funds transfer to an account at a financial institution from the approved credit account.

44. The automatic credit account processing system of claim 39 further comprising a card issuing device located at said remote interface and adapted to configure a credit card based on applicant and account information wherein said data processing system

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is further adapted to effect issuance of a credit card associated with the credit account from the card issuing device after approval of the requested credit account.

45. The automatic credit account processing system of claim 39 wherein said criteria bearing on the ability and willingness of the applicant to repay the credit obligation is weighted and said data processing system is further adapted to:

- a. provide a score based on the comparison of certain of the information received from the applicant and certain of the information received from said at least one database relevant to the applicant's ability and willingness to repay the credit obligation, and
- b. determine whether or not to approve the account request based on the score.

46. The automatic credit account processing system of claim 39 further comprising a printer located at the remote interface for printing checks, said data processing system further adapted to cooperate with said remote interface to effect printing a negotiable instrument associated with the account.

47. The automatic credit account processing system of claim 39 wherein said negotiable instrument is a blank check.

48. The automatic credit account processing system of claim 39 wherein said negotiable instrument is a cashier's check having a select value.

49. The automatic credit account processing system of claim 39 further comprising a printer located at the remote interface for printing checks, said data processing system further adapted to cooperate with said remote interface to effect printing a negotiable instrument having an assigned value to be drafted from the account.

50. The automatic credit account processing system of claim 39 wherein said remote interface is a public kiosk.

51. The automatic credit account processing system of claim 39 further comprising an electronic signature pad located at the remote interface and adapted to electronically receive the applicant's signature to indicate acceptance of a financial transaction.

52. The automatic credit account processing system of claim 39 wherein said remote interface includes an input device selected from the group consisting of touch screens, input keys, keypads, card reader, scanner, and signature pad.

53. The automatic credit account processing system of claim 43 wherein said remote interface is further configured to receive funds from the applicant and said data processing system is adapted to receive information relating to the funds received from the applicant at the remote interface and to transfer to the credit account an amount corresponding to the funds received from the applicant.

54. The automatic credit account processing system of claim 53 wherein said remote interface may include one of the group consisting of a cash acceptor, card reader, and scanner to receive the funds.

55. An automatic account processing system for establishing a financial account and issuing a corresponding transaction card without human intervention for applicants located at a remote interface, said system comprising:

- a. a remote interface adapted to:
 - i. allow an applicant to remotely request establishment of an account; and
 - ii. receive data from an applicant;
- b. a card issuing device located at said remote interface and adapted to configure a card based on applicant and account information and eject the card to the applicant upon account approval;
- c. a data processing system with associated memory having establishment criteria bearing on the ability and willingness of the applicant to comply with account requirements for establishing and holding an account at a financial institution based on prescribed data obtained from the applicant and information about the applicant obtained from at least one database containing information about the applicant relevant to the ability and willingness of the applicant to comply with the account requirements;
- d. a communication network electronically coupling said data processing system to said applicant interface;

- e. without human assistance, said data processing system adapted to:
 - i. receive the data from the applicant received at the remote interface;
 - ii. access the at least one database for information relevant to the applicant's identity and for the information relevant to the applicant's ability and willingness to comply with the account requirements;
 - iii. verify the applicant's identity by comparing certain of the information received from the applicant with certain of the information received from said at least one database relevant to the applicant's identity;
 - iv. compare certain of the information received from the applicant and certain of the information received from said at least one database relevant to the applicant's ability and willingness to comply with the account requirements to determine in real time and without human assistance if establishment of the applicant's requested account is approved; and
 - v. effect issuance of a transaction card from the card issuing device if establishment of the requested account was approved.

56. The automatic account processing system of claim 55 wherein said criteria bearing on the ability and willingness of the applicant to comply with account requirements

for establishing and holding an account at the financial institution is weighted and said data processing system is further adapted to:

- a. provide a score based on the comparison of certain of the information received from the applicant and certain of the information received from said at least one database relevant to the applicant's ability and willingness to comply with account requirements for establishing and holding an account at the financial institution, and
- b. determine whether or not to approve the account request based on the score.

57. An automatic credit account processing system for establishing a credit account without human intervention for applicants located at a remote interface, said system comprising:

- a. a remote interface adapted to:
 - i. allow an applicant to remotely request establishment of an account; and
 - ii. receive data from an applicant;
- b. a data processing system with associated memory having establishment criteria bearing on the ability and willingness of the applicant to repay a credit obligation based on prescribed data obtained from the applicant and information about the applicant obtained from at least one database containing information about the applicant relevant to the ability and willingness of the applicant to repay a credit obligation;
- c. a communication network electronically coupling said data processing system to said applicant interface;

- d. without human assistance, said data processing system adapted to:
 - i. receive the data from the applicant received at the remote interface;
 - ii. access the at least one database for information relevant to the applicant's identity and for the information relevant to the applicant's ability and willingness to repay a credit obligation;
 - iii. verify the applicant's identity by comparing certain of the information received from the applicant with certain of the information received from said at least one database relevant to the applicant's identity;
 - iv. compare certain of the information received from the applicant and certain of the information received from said at least one database relevant to the applicant's ability and willingness to repay a credit obligation to determine in real time and without human assistance if establishment of the applicant's requested credit account is approved; and
 - v. send a result to the remote applicant interface informing the applicant whether or not establishment of the requested credit account was approved.

58. The automatic credit account processing system of claim 57 wherein said criteria bearing on the ability and willingness of the applicant to repay a credit obligation is weighted and said data processing system is further adapted to:

- a. provide a score based on the comparison of certain of the information received from the applicant and certain of the information received from said at least one database relevant to the applicant's ability and willingness to repay a credit obligation, and
- b. determine whether or not to approve the account request based on the score.

59. An automatic processing system for issuing a transaction card for a given account without human intervention for applicants located at a remote interface, said system comprising:

- a. a remote interface adapted to:
 - i. allow an applicant to remotely request a transaction card; and
 - ii. receive data from an applicant;
- b. a card issuing device adapted to configure a card based on applicant and account information and eject the card to the applicant upon account approval;
- c. a data processing system with associated memory having criteria bearing on the ability and willingness of the applicant to comply with requirements for obtaining a transaction card for the account at a financial institution based on prescribed data obtained from the applicant and information about the applicant obtained from at least one database containing information about the applicant relevant to the ability and willingness of the applicant to comply with the requirements;
- d. a communication network electronically coupling said data processing system to said applicant interface;

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- e. without human assistance, said data processing system adapted to:
 - i. receive the data from the applicant received at the remote interface;
 - ii. access the at least one database for information relevant to the applicant's identity and for the information relevant to the applicant's ability and willingness to comply with the requirements;
 - iii. verify the applicant's identity by comparing certain of the information received from the applicant with certain of the information received from said at least one database relevant to the applicant's identity;
 - iv. compare certain of the information received from the applicant and certain of the information received from said at least one database relevant to the applicant's ability and willingness to comply with the requirements to determine in real time and without human assistance if the applicant's requested transaction card is approved; and
 - v. effect issuance of the transaction card from the card issuing device if the requested account was approved.

60. The automatic transaction card issuing system of claim 59 wherein said criteria bearing on the ability and willingness of the applicant to comply with requirements

for obtaining a transaction card for the account at a financial institution is weighted and said data processing system is further adapted to:

- a. provide a score based on the comparison of certain of the information received from the applicant and certain of the information received from said at least one database relevant to the applicant's ability and willingness to comply with requirements for obtaining a transaction card for the account at a financial institution, and
- b. determine whether or not to approve the transaction card request based on the score.

61. The automatic processing system of claim 60 wherein said transaction card is one of the group consisting of smart, debit, and credit cards.

62. An automatic credit account processing system providing real time credit account processing without human intervention for applicants located at a remote interface, said system comprising:

- a. a remote applicant interface adapted to:
 - i. allow an applicant to remotely request a credit increase for an existing account; and
 - ii. receive data from the applicant;
- b. a data processing system with associated memory having weighted underwriting criteria bearing on the ability and willingness of a applicant to repay a credit obligation based on prescribed data obtained from the applicant and

information about the applicant obtained from at least one database containing information about the applicant relevant to the ability and willingness of the applicant to repay a credit obligation;

c. a communication network electronically coupling said data processing system to said applicant interface;

d. without human assistance, said data processing system adapted to:

- i. receive the data from the applicant received at the applicant interface
- ii. access the at least one database for information relevant to the applicant's identity and for information relevant to the applicant's ability and willingness to repay the credit obligation;
- iii. verify the applicant's identity by comparing certain of the information received from the applicant with certain of the information received from said at least one database relevant to the applicant's identity;
- iv. compare certain of the information received from the applicant and certain of the information received from said at least one database relevant to the applicant's ability and willingness to repay the credit obligation with said weighted underwriting criteria;
- v. based on the comparison of certain of the information received from the applicant and certain of the information received from

said at least one database relevant to the applicant's ability and willingness to repay the credit obligation with said weighted underwriting criteria, determine in real time and without human assistance if the applicant's requested increase in credit is approved; and

- vii. send a result to the remote applicant interface informing the applicant whether or not the credit increase request was approved.

63. The automatic credit account processing system of claim 62 wherein said criteria bearing on the ability and willingness of the applicant to repay a credit obligation is weighted and said data processing system is further adapted to:

- a. provide a score based on the comparison of certain of the information received from the applicant and certain of the information received from said at least one database relevant to the applicant's ability and willingness to repay a credit obligation, and
- b. determine whether or not to approve the account request based on the score.

64. The automatic credit account processing system of claim 59 wherein said processing system is further adapted to effect an increase in credit for the existing account if the increase in credit is approved.--.

Remarks

Applicant respectfully requests consideration of the application. If the Examiner would like to clarify any issues relating to this case, Applicant's attorney would welcome a telephone interview to expedite prosecution.

Respectfully submitted,



C. Robert Rhodes
Registration No. 24,200

Date: May 3, 1999

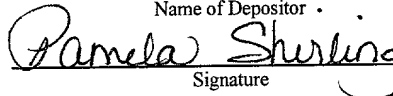
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CPI filed

PATENT

CLOSED LOOP FINANCIAL TRANSACTION
METHOD AND APPARATUS

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BACKGROUND OF THE INVENTION

1. Field of the Invention

The present application is a continuation in part of Serial No. 113,205
10 filed on 08/27/93.

The present invention relates generally to closed loop financial
transactions. More specifically, the present invention is a method and
apparatus for processing financial transactions automatically, including loans,
applications for credit, establishment of accounts and other transactions that
15 typically take place at banks.

2. Discussion of Background

Currently, consumers go to banks, credit unions and other types of
financial institutions for a wide variety of services. At these institutions, one
can deposit and withdraw money, transfer funds from one account to another,
20 establish checking and savings accounts, arrange for automatic deposits to and
withdrawals from accounts, apply for credit and debit cards, establish and
fund individual retirement accounts, purchase certificates of deposit and
savings bonds, obtain cashier's checks, and order checks for checking
accounts. Although the numbers and types of financial institutions have
25 proliferated, going to these during normal working hours is still a chore.

For years, night deposit boxes have made it possible for businesses and individuals to deposit money in a bank after hours. The advent of automatic teller machines make some of these financial services, particularly withdrawal of funds from checking accounts and the obtaining of cash advances against a credit card limit, possible both during the day and after normal banking hours. Of course, many financial transactions can still be handled through the mail. Nonetheless, there remains a significant number of services that can only be provided to a consumer if he or she is willing and able to go to a financial institution to get them.

An example of one such service is borrowing money. Borrowed money is essential to facilitate commerce and personal finance. Individuals and businesses borrow money on both a short term and a long term basis for better management of their day-to-day financial transactions and to obtain the goods and services they need when they need them. If the need to borrow money is anticipated, the arrangements for borrowing can be made in advance of the need. But financial needs are sometimes not foreseen, and the extent of a financial need is not always known or knowable in advance. Furthermore, these arrangements are usually somewhat of a necessary inconvenience because they take time and effort to complete.

When an individual needs to borrow money, the lender will not only expect repayment, but will also want to have confidence that the amount lent can be repaid on time. The effort by the borrower to provide the lender with this confidence level will depend on the amount lent. For example, a loan of less than one hundred dollars might be made simply on the basis of knowing that the individual to whom the money is lent has a job. For lending millions

of dollars, the lender may want to take a security interest in assets that have a value in excess of the amount lent, to cover fluctuations in the values of those assets during the time the loan is being repaid.

Not only will the borrower have an obligation to convince the lender
5 that the borrower is creditworthy, the lender also has obligations to the borrower. For example, in consumer loans, laws require the lender to carefully explain certain aspects of the terms of the loan, and, if the borrower's application for the loan is turned down, the reasons why.

When time and foresight permit advance arrangement of loans, the act
10 of borrowing can be made much simpler. When time is short and the need for the loan was not anticipated, the act of going through the process of borrowing may be so time-consuming that obtaining the loan may not be possible at all.

Typically, a business and an individual will either borrow relatively
15 small amounts using credit cards, with pre-approved credit limits or go to a lending institution for larger sums, where the process of completing documentation for borrowing money takes longer and is subject to conditions that must be fulfilled before the loan can be made. Naturally, for large loans the safeguards for the lender take time. But for smaller loans, those above
20 credit-card limits but still below a level where there might be a significant concern of the ability of the lender to repay the loan, there exists a need for greater convenience.

Other services offered by banks, such as applying for credit cards, are
similar to borrowing money insofar as applications must be completed and
25 processed for approval. Others are essentially administrative, such as opening

a checking or savings account, obtaining additional checks and obtaining a debit card. All such services must be obtained by going to a bank and completing the necessary documentation, with the attendant inconvenience.

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SUMMARY OF THE INVENTION

According to its major aspects and briefly stated, the present invention is a method and apparatus for closed loop processing of financial transactions such as, especially, a loan or credit card application, including completion of the application, underwriting, and transferring of funds. The term "closed loop" means that all the steps involved are performed by a computer that is programmed to make the decision to approve or disapprove the request and to complete all aspects of it, including complying with regulatory requirements, on behalf of the financial institution within minutes of the time the consumer initiates the request for the particular service. In loan application processing, for example, the closed loop includes the steps of transferring the funds to the borrower and arranging for repayment, as well as completing the loan application and underwriting it, including execution of regulatory requirements related to consumer financing, all done without human intervention. In the primary examples presented in the present invention, for loans and credit cards, the apparatus uses a computer controller and a telecommunications link, plus other electronic communications equipment, to enable the complete, automated processing of the application; namely: (1) the exchange of information with the applicant, preferably using "touch-screen" or voice recognition technology; (2) the underwriting, which means the

evaluation and, importantly, approval of the application, plus, most importantly; (3) immediately transferring electronically the funds from a source of funds to the deposit account designated by the applicant; (4) completing of consumer financing regulatory requirements; and, optionally,
5 (5) automatic withdrawals from the applicant's account to repay the loan.

With respect to financial transactions generally, the present invention is the closed loop performance of financial functions via a computer and monitor mounted in a kiosk, located in convenient places and using "touch-screen" or voice recognition technology, for the consumer to indicate choices
10 and provide information, and an electronic signature pad to obtain the signature of the applicant indicating understanding and acceptance of the terms of the transaction.

In the example of a loan or credit card, an applicant applies via a variety of communication and electronic routes to make contact with the
15 computer, which responds to the applicant and obtains information using touch-screen technology, in which the consumer applicant indicates a choice or supplies information by touching a computer monitor at the locations provided, or voice recognition technology, where the consumer simply states a choice or other appropriate response recognizable to the computer
20 controller. In the case of a touch screen monitor, the computer controller can sense touching of the screen electronically and determines the location touched. Information about the applicant is also obtained via electronic transfer of data to the computer from one or more databases, including those that provide name and address based on a caller's telephone number, and from

credit bureaus that provide credit reports on an applicant given an applicant's name, a social security number and an address.

In a preferred embodiment, the computer capability of the present invention also contains evaluation criteria in the form of underwriting models, that are used to "score" the application; that is, to make a determination of whether to approve the application based on a computer analysis of factors deemed important in assessing the would-be borrower's ability and willingness to repay the loan and to quantify the risk of its not being paid.

Finally, the loan agreement and other documentation, important for assuring that regulatory requirements have been met, are signed by the consumer using the electronic signature pad, and copies of the agreements with the electronic signature set in place are printed out for the consumer. The processing of the application is done completely and automatically, without human intervention.

In a preferred embodiment, the user-interface is a kiosk housing a computer controller, at least one telecommunications link, a monitor or "touch-screen" monitor, a camera to make a digital photograph of the applicant, a bank card reader to identify an applicant and activate the computer controller, and means for electronically transferring the signature and a photograph of the borrower onto the loan or credit card agreement. The kiosk may be established at a convenient location, such as an airport terminal, a bank, a shopping area or a store selling goods that might carry a price higher than a typical credit card limit, such as a jewelry store or computer sales store, for example. The kiosk can enable the consumer to establish checking and savings accounts, apply for and be immediately issued or sent credit and debit

cards, establish and fund individual retirement accounts, obtain savings bonds and certificates of deposit, arrange for automatic deposits to and withdrawals from accounts, obtain cashier's checks, and order checks for checking accounts.

5 An important feature of the present invention is the extent to which the financial transactions are processed by the computer controller and without human intervention. Computers are used to assist in processing applications routinely, but the extent of use here significantly exceeds that known in the art. Here, the processing by computer controller includes underwriting the
10 application and deciding to make or deny the loan (or delay loan approval until more information is provided) or credit, and the issuance of funds in the form of an electronic fund transfer from a source of funds controlled by the computer controller or printing of a check by the printer housed in the kiosk, or issuance of a transaction card, such as a credit, debit or "smart" card,
15 imprinted with the necessary information. The use of the computer to access certain information not within its own memory via telecommunications link also eliminates the need for human-based processing. Avoiding human intervention not only saves processing time and reduces errors, but also eliminates bias in the decision to approve or deny the application.

20 The use of a kiosk to make available to borrowers the communications capability for applying for a loan or credit card is another important feature of the present invention. Kiosks, placed in convenient locations, will contain electronic equipment that facilitates and speeds all of the steps of the application. Importantly, because funds are deposited directly into the
25 borrower's bank account rather than dispersed directly to the borrower from

an automatic teller machine, the obtaining of funds from such a kiosk is safer than obtaining funds from a teller machine.

Yet another feature of the present invention is the use of an electronic signature pad to obtain signatures of consumers for applications, for signature
5 specimens, for indicating an understanding of regulatorily-required disclosures, and for consent to the various financial services provided.

Because signatures can be obtained and recorded electronically, there is no need for the consumer to interact with a financial representative handling paper documents, and, therefore, financial transactions can be done at any
10 time of the day. Documents that are to be given to the consumer can be printed out by the printer carried by the kiosk. In fact, the present invention greatly reduces the need for financial institutions to maintain offices and makes it more cost effective for them to provide kiosks in remote areas rather than branch offices.

Yet another feature of the present invention is the inclusion of a camera
15 to make a digital photograph of the user for placing the photograph on checks, credit cards and loan documents, to prevent fraud and deter theft.

The use of "touch screen" technology, another feature of the present invention, makes it easier, quicker and more reliable for the consumer to
20 indicate a selection.

Other features and advantages will be apparent to those skilled in the art of automatic financial transactions from a careful reading of the Detailed Description of Preferred Embodiments accompanied by the Drawings.

BRIEF DESCRIPTION OF THE DRAWINGS

In the drawings,

Fig. 1 is a flow chart illustrating the menu of services and the major
5 steps of an automatic financial lending system according to a preferred
embodiment of the present invention;

Fig. 2 is a perspective view of the front of a kiosk according to a
preferred embodiment of the present invention; and

Fig. 3 is an enlarged view of the kiosk of Fig. 2 according to a preferred
10 embodiment of the present invention.

DETAILED DESCRIPTION OF PREFERRED EMBODIMENTS

The present invention is a method and apparatus for providing closed
15 loop financial services. In a preferred embodiment, these services include
those identified in Fig. 1: specifically, making loans, issuing checks (such as
cashiers' checks) certificates of deposit, treasury bills, mutual fund shares,
issuing transaction cards, such as credit/debit cards and so-called "smart"
cards, and establishing new accounts and depositing funds. The particular
20 examples of loans and credit cards will be described in detail. However, the
other services, as will be described presently, can also be obtained in
accordance with a preferred embodiment of the present invention.

The present invention includes making a loan or obtaining a transaction
card automatically, that is, a closed loop financial transaction. By the term
25 "automatically," it is meant that an application is received and processed, the

decision to grant the loan or to issue the credit card, and the deposit of the loaned amount to the borrower's account, is made entirely by computers in conjunction with voice and electronic communication equipment. Similarly, in the case of other financial transactions, "automatically" also means each step is handled by the computer controller without human intervention, assistance or decision-making.

The term "required documentation" or "documentation required by regulation" refers to documents required by the lender as part of good financial institutional practice for meeting internal requirements and regulatory requirements. With regard to regulatory requirements in particular, the regulations are Federal Reserve Board Regulations B (12 CFR 202 et seq.) and Z (12 CFR 225 et seq) promulgated pursuant to Title I of the Consumer Credit Protection Act (15 USC 1640 et seq.) and the Federal Truth In Lending Act (15 USC 1601 et seq.), respectively. These regulations prescribe the information to be given to a borrower or potential borrower regarding the terms of the transaction and reasons for denial of credit. Financial institutions usually comply with these regulatory requirements by providing the information to consumers in writing and obtaining the consumer's signature that the information was in fact provided and understood.

"Transaction cards," used in the context of financial transactions, refer to credit, debit, "smart", merchant, or credit identification cards containing information encoded in some way on the card, such as magnetically.

Fig. 1 shows a flow diagram according to a preferred embodiment of the present invention. The user (sometimes referred to herein generally as "consumer" or "applicant" or "borrower" in the case of loan applications)

accesses the system by approaching a kiosk 40 (see Figs. 2 and 3) that has either voice recognition capability through a voice communication processor 30 or a monitor 50 with touch screen capability. Touch screen capability in monitors is well known. To indicate a choice presented by a computer
5 monitor having touch screen capability, the user simply touches the screen at the location indicated. For example, images of a "yes" and a "no" button will appear and, by touching the "yes" button, the consumer indicates an affirmative answer to the question presented.

Use of voice communication processor 30 requires the consumer to
10 state aloud a choice rather than point to one on monitor 40. This technology is obviously more sophisticated than touch screen technology but is also well known in several other applications.

Touch screen monitor 50 or voice communication processor 30 enables the consumer to "talk" to the transaction processor 10. By so communicating,
15 information can be exchanged and the particular types of transactions selected by the consumer can be completed. Importantly, the consumer is interacting with transaction processor 10 without assistance from employees of the financial institution. Interacting with a transaction processor can be viewed as impersonal, but it can also be viewed as more private and freer of bias.

Kiosk 40 is activated by drawing an ATM or bank card or equivalent
20 through a magnetically encoded card reader 70 or by providing a member number for credit unions or a merchant number for merchants and finance companies. The information encoded in the magnetic stripe on the back of the card is read by reader 70 and the information passed to transaction
25 processor 10.

In a preferred embodiment, transaction processor 10 inquires of the consumer as to the type of transaction desired and selects the corresponding application or account information module, 130, 140, respectively, that then assists its informational gathering activities. If the consumer wishes to apply
5 for a loan, credit or to set up a new account, application module 130 is activated to obtain the requisite information from the consumer and comply with lending institution and regulatory requirements associated with the particular application. If the consumer desires to withdraw or transfer funds or to make a purchase or a deposit, transaction processor 10 will activate
10 account information module 140 to move funds from an account or from one source of funds to another account or will issue a check from kiosk 40 to the merchant or directly to the consumer.

In either case, information must be exchanged with the user. This information comes in part from the consumer's physically indicated or spoken
15 responses to inquiries and in part from a database 60 using the borrower's telephone number for identification. Transaction processor 10 determines caller's name and address from database 60 based on the telephone number of the consumer or, in a preferred embodiment, from information encoded magnetically on a bankcard used by the consumer to activate kiosk 40. Other
20 than confirmation that the consumer wants to apply for a loan (or, alternatively, to initiate one of the other transactions possible), the amount desired, and the term, transaction processor 10 initially needs only the applicant's name, address and social security number for identification. This information is used to obtain a credit report from a credit bureau.

The applicant's credit report is obtained from the credit bureau by transaction processor 10, evaluated using an underwriting model 90, to be described more fully below, and a decision is made based on the results of the evaluation by underwriting model 90, which results are in the form of a score and an associated risk factor, to grant or deny the loan or credit card application. Transaction processor 10 informs the borrower of the decision and, if the application is granted, presents the terms of the financial transaction to the applicant via monitor 50. If the borrower accepts the terms of the loan or credit card, the borrower can sign the documents electronically using an electronic signature pad 100 on kiosk. The same approach can be used to verify in writing the fact that the borrower understood the terms of the loan or credit card, as required by law, or, if the loan or credit card is denied, that the borrower received a copy of the negative determination letter with its explanation as to why the application was denied. In each case the consumer's signature on the documentation can be secured electronically.

When transaction processor 10 has received the credit report, it sends the report electronically to underwriting model 90 (which could be interfaced with a "neural network," a type of computer program that adapts an underwriting model to lending experience) to begin the evaluation of the application. The evaluation may proceed by iterating among a set of criteria that are weighted. In the present application, one criterion that may be used in deciding to approve the application is that the applicant have a full time job; this criterion may in fact have the greatest weight. However, if the borrower owns a home and has several bank accounts, criteria directed toward these assets might outweigh the lack of a job.

Analyzing the loan or credit card application involves determining a score on which granting or denying the loan or credit card will be based. A typical scoring system simply assigns points to various factors that may be considered in the loan or credit granting determination. Preferably, however,
5 an underwriting model is used for scoring the application or at least for updating on a periodic basis the points applied by a more traditional scoring system.

Underwriting model 90 is established by first identifying criteria that might have a bearing on the ability and willingness of the borrower to repay
10 the loan or credit card. Then historical data is gathered to determine the influence, or weight, to be given to each criterion. The data is examined and the initial set of weighting factors are applied to develop estimates of the actual outcome of the data. The model's estimates are compared to the actual outcome, and the weights are adjusted to make the estimates closer until the
15 outcome predictions have been optimized. Underwriting model 90 uses information calculated from the credit report, such as the ratio of debt to liquidity. An underwriting model designer will also make a judgment on how few criteria are needed to make a sufficiently accurate prediction. There are commercially available computer programs, known to those skilled in the art
20 of computer decision-making, that can be used to develop underwriting models for the lending model upon entering the criteria and initial weighting factors.

If the analysis of underwriting model 90 determines that the loan should be made or the credit card issued, additional information is confirmed by
25 transaction processor 10 from data obtained from database 60 or a credit

bureau or is obtained from the borrower using transaction processor 10, namely, the borrower's deposit account number, the caller's facsimile number, and the caller's acceptance of automatic withdrawal. Then, the terms and conditions of the loan or credit card must be established in writing and the borrower's signature obtained. Obtaining the signature of the borrower can be accomplished using an inkless electronic signature pad 100 and electronic pen 105 that, when the borrower makes a signature while holding pen 105, recreates, through digital technology, the signature of the borrower on the signature line of the documents displayed on the personal computer monitor.

A camera 110 carried by kiosk 40 can be used to take a photograph of the applicant digitally. A digitally generated photograph of the applicant can be placed on documents near the signature location. The signed documentation is printed using a facsimile or a laser printer (not shown) in kiosk 40. The documentation may include a copy of the digitally-generated photograph next to the signature and is issued through a printer port 120.

Transaction processor 10 then issues an electronic instruction to a source of funds such as lending institution (not shown) to transfer electronically the borrowed amount to the borrower's bank account at a deposit institution (not shown). Before the application is approved, however, there are several checks made by transaction processor 10 to prevent fraud. For example, the name of the applicant and the applicant's signature is verified, both electronically. Information obtained from the applicant including date of birth and the number of years with present employer, is compared to that available from a credit report or other sources such as the national death and birth records, drivers' licenses, criminal records, etc.

In a preferred embodiment, part of the terms of the lending agreement include permission from the borrower for the lender to make an automatic, periodic withdrawal from the borrower's bank account for repaying the loan. The automatic direct deposit by electronic fund transfer to and the automatic withdrawal of payment from the borrower's deposit account are especially important features of the present invention because they eliminate portions of the process from human control and delays. Also, if the borrower has an immediate need for the loan, direct deposit will make these funds available as quickly as possible, avoiding delays resulting from mailing, lost checks, the time taken for a check to clear, and the need to go to the deposit institution to make the deposit. Any documentation requiring the borrower's signature, including consumer lending disclosure information, will be handled as discussed previously.

No human needs to intercede. Transaction processor 10 communicates with the borrower to extract information from data base 60 and a credit bureau; underwriting model 90 makes the decision to lend, and transaction processor 10 obtains the signature of the borrower on the lending agreement using signature pad 100. Processor 10 effects the electronic fund transfer and arranges for automatic withdrawal of monthly payments. Throughout the process, transaction processor 10 will interact with the borrower using monitor 50 of kiosk 40 to prompt the borrower, who can indicate on the touch screen responses to processor 10 for the latter to obtain the credit report and process the application. Loan or credit documentation can be stored electronically by processor 10 in kiosk 40, or be transmitted by modem (not shown) within kiosk 40 and connected electronically to transaction processor

10, printed using an internal printer, and the copies of the forms issued through printer port 120.

As an example of the prompting that can be done, transaction processor 10 can ask: "Are you currently employed? Press 'yes' or 'no.'", "How much is your monthly income?", or "How much do you spend per month?" This information, provided by way of example, would be available from a credit report, but can be confirmed by prompting a response. Alternatively, if the information is asked and the responses, based on a partial analysis, indicate that the loan cannot be made or credit not extended, the applicant can be so informed by printing a regulatory-compliant credit denial letter, and the time, need and cost of obtaining a credit report can be avoided. The answers to the prompts can be input by the borrower by using "touch screen" monitor 50 in kiosk 40.

After approving the loan or credit card application, transaction processor 10 will review with the borrower the information relevant to the loan or issuance of a credit card, such as the account number to which the direct deposit will be made and the name of the deposit institution, the account number and name of the automatic withdrawal institution, the date of the month and the first month the automatic withdrawal will begin, the address and payee if the check is not intended for deposit into an account, late charges that could apply, the finance charge, the annual percentage rate, the total cost of all the payments, and the total amount financed. This information needed from the borrower regarding his or her accounts can be obtained by transaction processor 10 after underwriting model has made the determination to make the loan or issue the credit card.

The preferred embodiment for enabling a borrower to complete a loan or credit card application is housed in kiosk 40. Figs. 2 and 3 depict kiosk 40 for use by an applicant in initiating an application. A kiosk is basically a housing that can contain all of the equipment for a borrower to use in contacting and communicating with a remote, centrally located transaction processor 10, or, alternatively, kiosk 40 can contain processor 10. Kiosk 40 includes monitor 50 with touch screen capability, a magnetic bank card reader 70 that enables a bank card to be read to identify an applicant as well as the applicant's bank and corresponding checking account, a magnetically encrypted card reader, an internal printer with communications link (not shown in Figs. 2 and 3) and, in a preferred embodiment, electronic signature pad 100 and associated electronic pen 105 and a security camera 110. Signature pad 100 is a surface that converts the motion of electronic pen 105 as borrower holds it and goes through the motions of making a signature to an electronic image of a signature and transfers it electronically to transaction processor 10. Camera 110 takes a digital photograph of the consumer and transmits it to transaction processor 10 for application to checks, credit or debit cards, so-called "smart" cards, and loan documents. "Smart" cards are plastic cards with magnetically encoded information about the bearer of the cards, including such information as name, address, telephone number, social security number, any pertinent medical data, next of kin, account information, and so on.

In use, an applicant will enter kiosk 40 and indicate using "touch screen" monitor 50 his interest in a loan or any of the other financial services offered. He will be prompted by transaction processor via monitor 50 to run a

credit, debit, "smart", ATM or merchant card through a card reader 70 to identify himself or, alternatively, may simply enter sufficient other information to validate his identity. Transaction processor 10 will access one or more databases 60, such as a credit bureau, to obtain a credit report, to run a fraud analysis, for signature verification, or to see if the consumer has written bad checks or the card is stolen. As before, the information obtained from the applicant and from the credit report will be scored, preferably using underwriting model 90, to determine whether or not to approve the application. Whether approved or disapproved, the applicant will be so informed and the loan or credit information or, if appropriate, a loan/credit denial letter provided. The signature of the applicant can be obtained using electronic signature pad 100, and a signed copy of the agreement printed out through printer port 120 with a digitized photograph of the applicant. Meanwhile, the electronic transfer of funds will have been arranged and communicated to applicant (or to a merchant or dealer selling the item purchased with the loan) as well as obtaining the borrower's permission via a signed consent form done in similar fashion to have his deposit account automatically debited to repay the loan. All regulatory requirements will be met by presenting information to the consumer via monitor 50 and obtaining concurrence of understanding by a signature using signature pad 100.

As stated above, loans and credit cards are but one of many types of services that can be provided by a kiosk of the type described or with slight modifications. In fact, all the basic services provided by financial institutions -- depositing and withdrawing money, transferring funds from one account to another, establishing checking and savings accounts, arranging for automatic

deposits to and withdrawals from accounts, applying for credit/debit/smart cards, establishing and funding individual retirement accounts, purchasing certificates of deposit, savings bonds, and mutual fund shares, obtaining cashier's checks, and ordering checks for checking accounts — can be done
5 using the kiosk and computer controller of the present invention.

For example, and referring to Fig. 3, if a consumer has a checking or savings account with a particular bank and desires a debit card, one that enables him to debit such an account for purchases or to obtain cash, he can use the features of a kiosk 40, including a transaction processor 10 (see Fig. 1)
10 and a touch screen monitor 50, its electronic signature pad 100, credit card reader 70, document and check printer (not shown), printer port 120, and credit/debit card port 150. In a procedure somewhat similar to applying for a loan, the consumer can apply for a credit card with a credit limit or a debit card that draws on his or her account. If, instead of a loan, the applicant
15 wants a line of credit or has an account with a bank, a credit or debit card, respectively, can be imprinted by transaction processor, including a copy of the digital photograph taken with camera 110 and issued from kiosk 40 through credit card port 150 from a supply of cards kept within kiosk 40.

In establishing a checking or savings account, the consumer can
20 transfer funds from another account to set up the new account or feed in a check to a scanner for deposit to the new account. Identifying the signature specimen can be obtained by the signing of electronic signature pad 100. Regulatory approvals can be obtained by first displaying documents on the monitor screen, highlighting those requiring careful explanation and obtaining
25 both the consumer's acknowledgment that they were explained and that he

WHAT IS CLAIMED IS:

1. A system for providing closed loop financial transactions to a consumer, said system comprising:

5 a kiosk;

a computer controller carried by said kiosk and programmed to interact with said consumer, to obtain information about said consumer from other sources and to approve transactions requested by said consumer when said computer controller determines approval is appropriate;

10 means carried by said kiosk and responsive to said computer controller for communicating to said consumer;

input means carried by said kiosk for enabling information to be communicated by said consumer to said computer controller, said computer controller responsive to said input means;

15 output means carried by said kiosk and responsive to said computer controller for responding to said financial transaction requested by said consumer; and

20 at least one telecommunications link between said other sources and said computer controller so that said computer controller can access said information about said consumer from said other sources.

2. The system as recited in claim 1, further comprising means for accessing a source of funds controlled by said computer controller.

3. The system as recited in claim 1, further comprising means for transferring funds to an account designated by said consumer immediately upon a decision by said computer controller in response to a request for said funds by said consumer.

5

4. The system as recited in claim 1, further comprising a digital camera carrier by said kiosk.

5. The system as recited in claim 1, further comprising means for
10 indicating acceptance by said consumer of said financial transaction.

6. The system as recited in claim 1, further comprising an electronic
signature pad carried by said kiosk and readable by said computer controller,
said signature pad used by said consumer to indicate acceptance of said
15 financial transaction.

7. The system as recited in claim 1, wherein said output means further
comprises a printer carried by said kiosk and responsive to said computer
controller.
20

8. The system as recited in claim 1, further comprising means for
indicating to said computer controller acceptance by said consumer of said
financial transaction, said acceptance readable by said computer controller,
and wherein said output means further comprises means for printing
25 documents for said consumer.

9. The system as recited in claim 1, further comprising a source of funds controlled by said computer controller, and wherein said output means further comprises means for printing checks for said consumer.

5

10. A system for providing closed loop financial to a consumer, said system comprising:

a kiosk;

a computer controller carried by said kiosk and programmed to interact with said consumer, to obtain information about said consumer from other sources and to approve transactions requested by said consumer when said computer controller determines approval is appropriate;

means carried by said kiosk for activating said computer controller, said computer controller responsive to said activating means;

means carried by said kiosk and responsive to said computer controller for communicating to said consumer;

input means carried by said kiosk for enabling information to be communicated by said consumer to said computer controller, said computer controller responsive to said input means;

a printer carried by said kiosk and responsive to said computer controller;

an electronic signature pad carried by said kiosk and readable by said computer controller;

a source of funds; and

at least one telecommunications link from said computer controller so that said computer controller can access said other sources.

11. The system as recited in claim 10, further comprising:

5 means carried by said kiosk for imprinting transaction cards; and
means carried by said kiosk for storing a supply of said transaction cards.

12. The system as recited in claim 10, wherein said input means further
10 comprises means for sensing a touching of said monitor by said consumer.

13. The system as recited in claim 10, wherein said input means further
comprises means for sensing and locating a touching of said monitor by said
consumer.

14. The system as recited in claim 10, wherein said activating means
15 further comprises a magnetically encoded card reader.

15. The system as recited in claim 10, wherein said source of funds is
20 carried by said kiosk.

16. The system as recited in claim 10, wherein said source of funds is
accessed through said telecommunications link.

17. A system for providing financial transactions to a consumer, said system comprising:

a kiosk;

a computer controller carried by said kiosk and programmed to interact
5 with said consumer, to obtain information about said consumer from other sources and to approve transactions requested by said consumer when said computer controller determines approval is appropriate;

means carried by said kiosk and responsive to said computer controller for communicating to said consumer;

10 input means carried by said kiosk for enabling information to be communicated by said consumer to said computer controller, said computer controller responsive to said input means;

means carried by said kiosk for imprinting transaction cards;

15 means carried by said kiosk for storing a supply of said transaction cards; and

at least one telecommunications link between said other sources and said computer controller so that said computer controller can access said information about said consumer from said other sources.

20 18. The system as recited in claim 17, wherein said input means and communicating means further comprise a touch-screen monitor, said touch-screen monitor having a screen and being adapted to sense and locate a touching of said screen by said consumer, said touching being made by said consumer to indicate a choice from a selection presented by said computer
25 controller to said consumer through said touch screen monitor.

19. The system as recited in claim 17, further comprising:

a source of funds controlled by said computer controller, said computer controller having access to said funds through said at least one

5 telecommunications link; and

means for printing checks for said consumer.

20. The system as recited in claim 17, further comprising:

an electronic signature pad for recording a signature of said consumer

10 onto documentation; and

means for printing copies of said documentation for said consumer.

ABSTRACT OF THE DISCLOSURE

A method and apparatus for closed loop, automatic processing of typical financial transactions, including loans, setting up checking, savings and individual retirement accounts, obtaining cashier's checks, ordering additional checks, issuing credit and debit cards, wire transferring money, and so on. The transactions are provided from a kiosk and controlled by a computer controller interacting with the consumer. In the case of loans, a computer controller helps the consumer in the completion of the application, performs the underwriting, and transfers funds. The computer controller obtains the information needed to process the application, determines whether to approve the loan, effects electronic fund transfers to the applicant's deposit account and arranges for automatic withdrawals to repay the loan. The computer controller reviews documentation requirements including consumer lending and other required documentation with the consumer and obtains acknowledgment of acceptance of terms by having the consumer sign an electronic signature pad. Copies of documents with a digital photograph are printed out by a printer in the kiosk for the consumer. Finally, the kiosk has the capability of imprinting a credit or debit card in response to a consumer request.

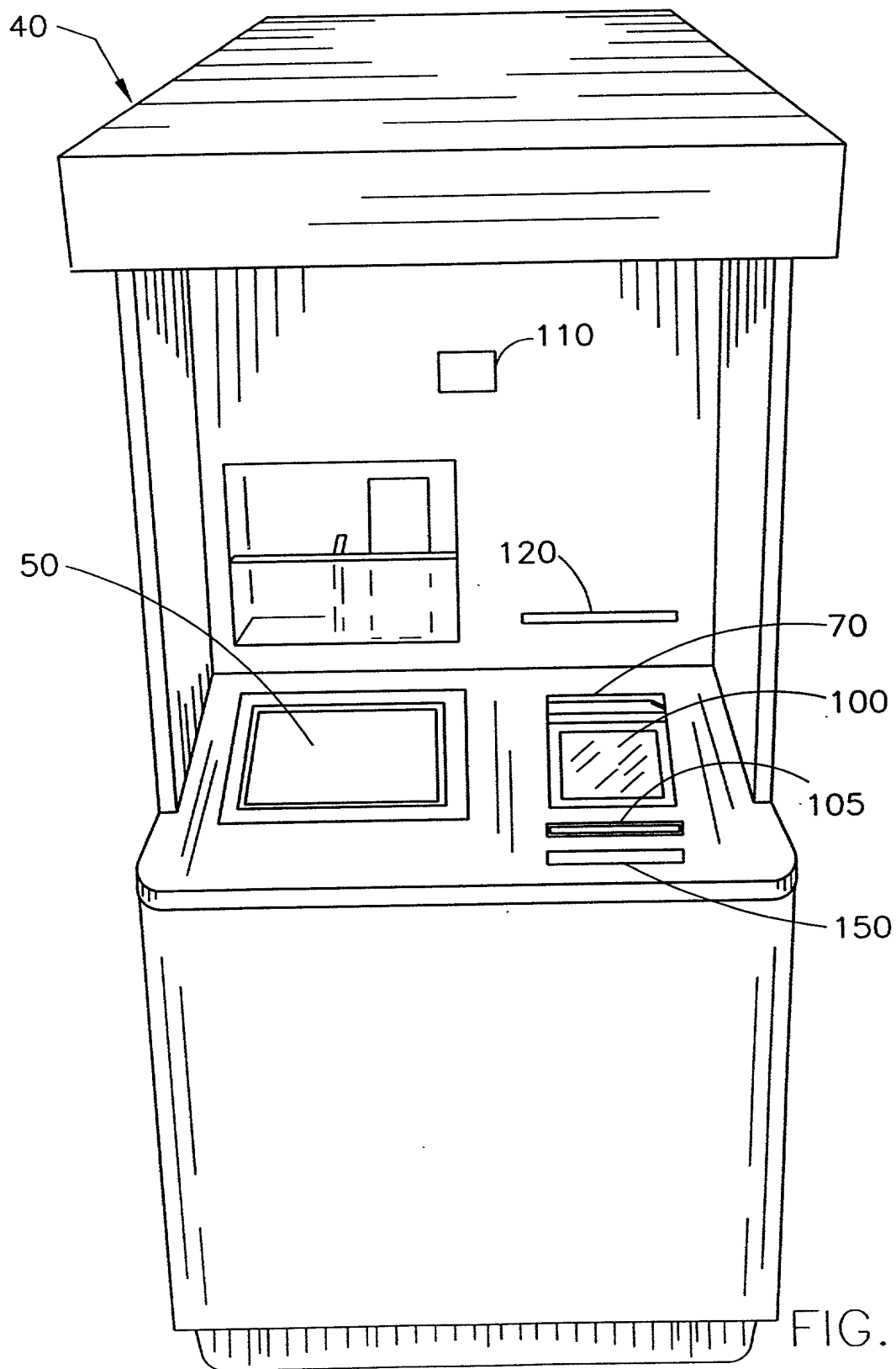


FIG.2

625000 625000 625000

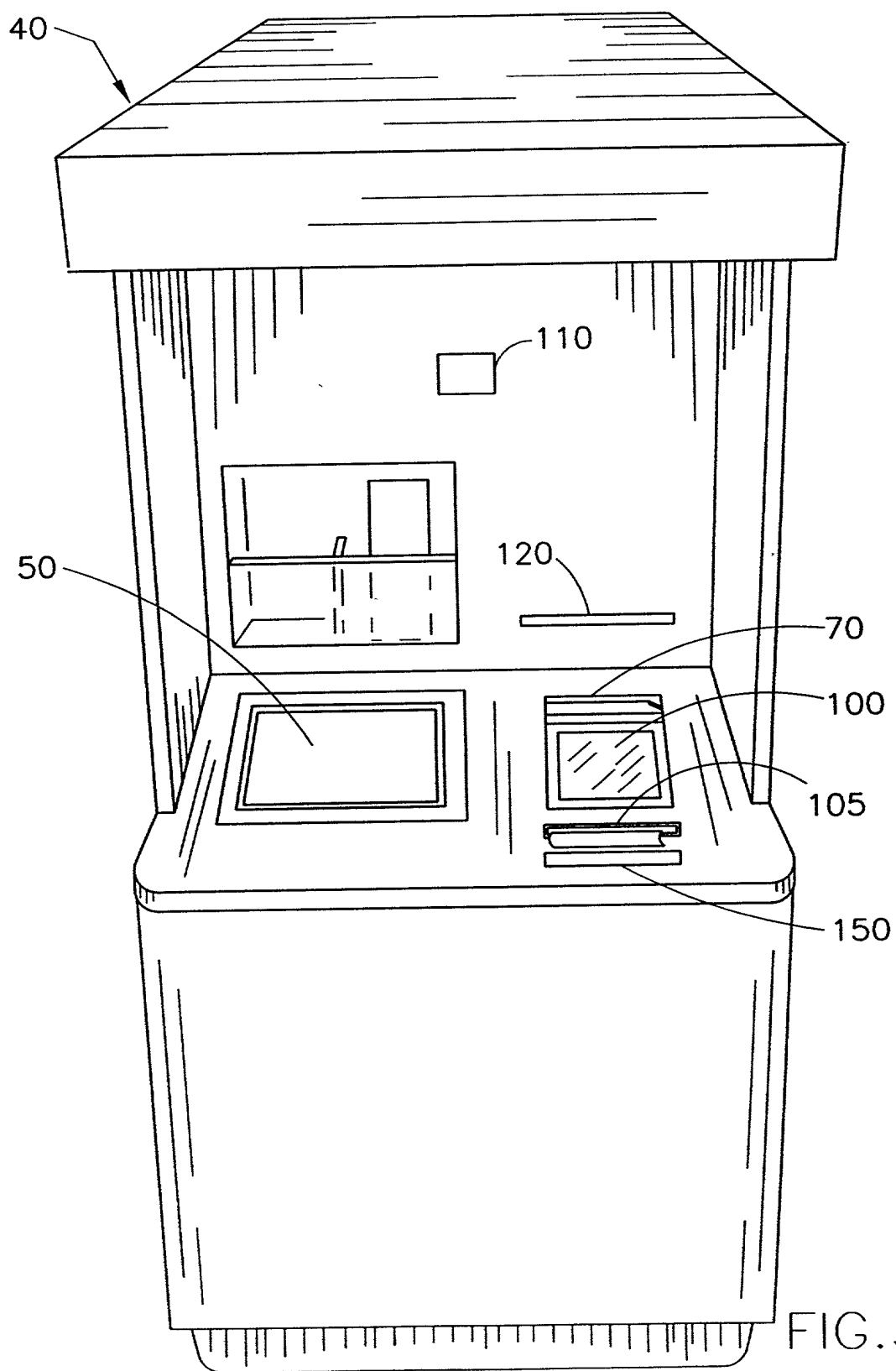


FIG. 3

Attorney's Docket No. 94-1758**PATENT****COMBINED DECLARATION AND POWER OF ATTORNEY****(ORIGINAL, DESIGN, NATIONAL STAGE OF PCT, SUPPLEMENTAL, DIVISIONAL,
CONTINUATION OR C-I-P)**

As a below named inventor, I hereby declare that:

TYPE OF DECLARATION

This declaration is of the following type: (check one applicable item below)

- ☒ original
☐ design
☐ supplemental

NOTE: If the declaration is for an International Application being filed as a divisional, continuation or continuation-in-part application, do not check next item; check appropriate one of last three items.

- ☐ national stage of PCT

NOTE: If one of the following 3 items apply, then complete and also attach ADDED PAGES FOR DIVISIONAL, CONTINUATION OR C-I-P.

- ☐ divisional
☐ continuation
☒ continuation-in-part (C-I-P)

INVENTORSHIP IDENTIFICATION**WARNING:** If the inventors are each not the inventors of all the claims, an explanation of the facts, including the ownership of all the claims at the time the last claimed invention was made, should be submitted.

My residence, post office address and citizenship are as stated below next to my name. I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

TITLE OF INVENTIONClosed Loop Financial Transaction Method and Apparatus**SPECIFICATION IDENTIFICATION**

the specification of which: (complete (a), (b) or (c))

- (a) ☒ is attached hereto.
(b) ☐ was filed on _____ as ☐ Serial No. 0 / _____
or ☐ Express Mail No., as Serial No. not yet known _____
and was amended on _____ (if applicable).

NOTE: Amendments filed after the original papers are deposited with the PTO which contain new matter are not accorded a filing date by being referred to in the declaration. Accordingly, the amendments involved are those filed with the application papers or, in the case of a supplemental declaration, are those amendments claiming matter not encompassed in the original statement of invention or claims. See 37 CFR 1.67.

- (c) ☐ was described and claimed in PCT International Application No. _____ filed on _____ and as amended under PCT Article 19 on _____ (if any).

ACKNOWLEDGEMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information

- ☒ which is material to patentability as defined in 37, Code of Federal Regulations, § 1.56

(also check the following items, if desired)

- ☒ and which is material to the examination of this application, namely, information where there is a substantial likelihood that a reasonable examiner would consider it important in deciding whether to allow the application to issue as a patent, and

- ☐ In compliance with this duty there is attached an information disclosure statement in accordance with 37 CFR 1.98.

PRIORITY CLAIM (35 U.S.C. § 119)

I hereby claim foreign priority benefits under Title 35, United States Code, § 119 of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed.

(complete (d) or (e))

- (d) ☒ no such applications have been filed.
(e) ☐ such applications have been filed as follows.

NOTE: Where item (c) is entered above and the International Application which designated the U.S. itself claimed priority check item (e), enter the details below and make the priority claim.

**A. PRIOR FOREIGN/PCT APPLICATION(S) FILED WITHIN 12 MONTHS
(6 MONTHS FOR DESIGN) PRIOR TO THIS APPLICATION
AND ANY PRIORITY CLAIMS UNDER 35 U.S.C. § 119**

COUNTRY (OR INDICATE IF PCT)	APPLICATION NUMBER	DATE OF FILING (day, month, year)	PRIORITY CLAIMED UNDER 37 USC 119
			<input type="checkbox"/> YES NO <input type="checkbox"/>
			<input type="checkbox"/> YES NO <input type="checkbox"/>
			<input type="checkbox"/> YES NO <input type="checkbox"/>
			<input type="checkbox"/> YES NO <input type="checkbox"/>
			<input type="checkbox"/> YES NO <input type="checkbox"/>

**ALL FOREIGN APPLICATION(S), IF ANY FILED MORE THAN 12 MONTHS
(6 MONTHS FOR DESIGN) PRIOR TO THIS U.S. APPLICATION**

NOTE: If the application filed more than 12 months from the filing date of this application is a PCT filing forming the basis for this application entering the United States as (1) the national stage, or (2) a continuation, divisional, or continuation-in-part, then also complete **ADDED PAGES TO COMBINED DECLARATION AND POWER OF ATTORNEY FOR DIVISIONAL, CONTINUATION OR C-I-P APPLICATION** for benefit of the prior U.S. or PCT application(s) under 35 U.S.C. § 120.

POWER OF ATTORNEY

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. (List name and registration number)

Michael A. Mann
Reg. No. 32,825

(check the following item, if applicable)

- ☐ Attached as part of this declaration and power of attorney is the authorization of the above-named attorney(s) to accept and follow instructions from my representative(s).

(Declaration and Power of Attorney [1-1]—page 3 of 5)

SEND CORRESPONDENCE TO

Michael A. Mann, P.A.
PO Box 7908
Columbia, SC 29202

DIRECT TELEPHONE CALLS TO:

(Name and telephone number)

Michael A. Mann
803/254-8472

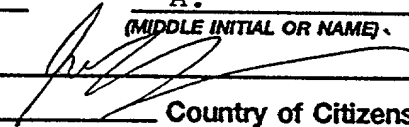
DECLARATION

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

SIGNATURE(S)

NOTE: Carefully indicate the family (or last) name as it should appear on the filing receipt and all other documents.

Full name of sole or first inventor

Jeffrey A. Norris
(GIVEN NAME) (MIDDLE INITIAL OR NAME) FAMILY (OR LAST NAME)
Inventor's signature 
Date 10/24/94 Country of Citizenship USA
Residence 145 Mansfield Circle, Lexington, SC 29073
Post Office Address 145 Mansfield Circle, Lexington, SC 29073

Full name of second joint inventor, if any

(GIVEN NAME) (MIDDLE INITIAL OR NAME) FAMILY (OR LAST NAME)
Inventor's signature _____
Date _____ Country of Citizenship _____
Residence _____
Post Office Address _____

Full name of third joint inventor, if any

 (GIVEN NAME) (MIDDLE INITIAL OR NAME) FAMILY (OR LAST NAME)

Inventor's signature _____

Date _____ Country of Citizenship _____

Residence _____

Post Office Address _____

CHECK PROPER BOX(ES) FOR ANY OF THE FOLLOWING ADDED PAGE(S) WHICH
 FORM A PART OF THIS DECLARATION

- ☐ Signature for fourth and subsequent joint inventors. Number of pages added _____

* * *

- ☐ Signature by administrator(trix), executor(trix) or legal representative for deceased or incapacitated inventor. Number of pages added _____

* * *

- ☐ Signature for inventor who refuses to sign or cannot be reached by person authorized under 37 CFR 1.47. Number of pages added _____

* * *

- ☐ Added page for signature by one joint inventor on behalf of deceased inventor(s) where legal representative cannot be appointed in time (37 CFR 1.47).

* * *

- ☐ Added pages to combined declaration and power of attorney for divisional, continuation, or continuation-in-part (C-I-P) application.

☐ Number of pages added _____

* * *

- ☐ Authorization of attorney(s) to accept and follow instructions from representative.

* * *

(If no further pages form a part of this Declaration, then end this Declaration with this page and check the following item:)

☒ This declaration ends with this page.